

Table S2. ICD-9 Diagnosis Codes for Congenital Abnormalities

ICD-9 Diagnosis Code	Description
259.4	Dwarfism, not elsewhere classified
655.0x	Central nervous system malformation in fetus affecting management of mother
740.0	Anencephalus
740.1	Craniorachischisis
740.2	Iniencephaly
741.0x	Spina bifida with hydrocephalus
741.9x	Spina bifida without mention of hydrocephalus
742.0	Encephalocele
742.1	Microcephalus
742.2	Congenital reduction deformities of brain
742.3	Congenital hydrocephalus
742.4	Other specified congenital anomalies of brain
742.5x	Other specified congenital anomalies of spinal cord
742.8	Other specified congenital anomalies of nervous system
742.9	Unspecified congenital anomaly of brain, spinal cord, and nervous system
743.0x	Anophthalmos
743.1x	Microphthalmos
743.2x	Buphthalmos
743.3x	Congenital cataract and lens anomalies
743.4x	Coloboma and other anomalies of anterior segment
743.5x	Congenital anomalies of posterior segment
743.6x	Congenital anomalies of eyelids lacrimal system and orbit
743.8	Other specified anomalies of eye
743.9	Unspecified anomaly of eye
744.0x	Congenital anomalies of ear causing impairment of hearing
744.1	Accessory auricle
744.2x	Other specified congenital anomalies of ear
744.3	Unspecified anomaly of ear
744.4x	Branchial cleft cyst or fistula; preauricular sinus
744.5	Webbing of neck
744.8x	Other specified congenital anomalies of face and neck
744.9	Unspecified congenital anomalies of face and neck
745.0	Common truncus
745.1x	Transposition of great vessels
745.2	Tetralogy of Fallot
745.3	Common ventricle
745.4	Ventricular septal defect
745.5	Ostium secundum type atrial septal defect
745.6x	Endocardial cushion defects
745.7	Cor biloculare
745.8	Other bulbus cordis anomalies and anomalies of cardiac septal closure
745.9	Unspecified defect of septal closure

Table S2. ICD-9 Diagnosis Codes for Congenital Abnormalities (*cont.*)

ICD-9 Diagnosis Code	Description
746.0x	Anomalies of pulmonary valve congenital
746.1	Tricuspid atresia and stenosis, congenital
746.2	Ebstein's anomaly
746.3	Congenital stenosis of aortic valve
746.4	Congenital insufficiency of aortic valve
746.5	Congenital mitral stenosis
746.6	Congenital mitral insufficiency
746.7	Hypoplastic left heart syndrome
746.8x	Other specified congenital anomalies of heart
746.9	Unspecified congenital anomaly of heart
747.0	Patent ductus arteriosus
747.1x	Coarctation of aorta
747.2x	Other congenital anomalies of aorta
747.3x	Congenital anomalies of pulmonary artery
747.4x	Congenital anomalies of great veins
747.5	Absence or hypoplasia of umbilical artery
747.6x	Other congenital anomalies of peripheral vascular system
747.8x	Other specified congenital anomalies of circulatory system
747.9	Unspecified anomaly of circulatory system
748.0	Choanal atresia
748.1	Other anomalies of nose
748.2	Web of larynx
748.3	Other anomalies of larynx, trachea, and bronchus
748.4	Congenital cystic lung
748.5	Agenesis, hypoplasia, and dysplasia of lung
748.6x	Other congenital anomalies of lung
748.8	Other specified anomalies of respiratory system
748.9	Unspecified anomaly of respiratory system
749.0x	Cleft palate
749.1x	Cleft lip
749.2x	Cleft palate with cleft lip
750.0	Tongue tie
750.1x	Other congenital anomalies of tongue
750.2x	Other specified congenital anomalies of mouth and pharynx
750.3	Tracheoesophageal fistula, esophageal atresia, and stenosis
750.4	Other specified anomalies of esophagus
750.5	Congenital hypertrophic pyloric stenosis
750.6	Congenital hiatus hernia
750.7	Other specified anomalies of stomach
750.8	Other specified anomalies of upper alimentary tract
750.9	Unspecified anomaly of upper alimentary tract
751.0	Meckel's diverticulum

Table S2. ICD-9 Diagnosis Codes for Congenital Abnormalities (*cont.*)

ICD-9 Diagnosis Code	Description
751.1	Atresia and stenosis of small intestine
751.2	Atresia and stenosis of large intestine, rectum, and anal canal
751.3	Hirschsprung's disease and other congenital functional disorders of colon
751.4	Anomalies of intestinal fixation
751.5	Other anomalies of intestine
751.6x	Anomalies of gallbladder bile ducts and liver
751.7	Anomalies of pancreas
751.8	Other specified anomalies of digestive system
751.9	Unspecified anomaly of digestive system
752.0	Anomalies of ovaries
752.1x	Congenital anomalies of fallopian tubes and broad ligaments
752.2	Doubling of uterus
752.3x	Other congenital anomalies of uterus
752.4x	Congenital anomalies of cervix, vagina, and external female genitalia
752.5x	Undescended and retractile testicle
752.6x	Hypospadias and epispadias and other penile anomalies
752.7	Indeterminate sex and pseudohermaphroditism
752.8x	Other specified congenital anomalies of genital organs
752.9	Unspecified anomaly of genital organs
753.0	Renal agenesis and dysgenesis
753.1x	Cystic kidney disease
753.2x	Obstructive defects of renal pelvis and ureter
753.3	Other specified anomalies of kidney
753.4	Other specified anomalies of ureter
753.5	Exstrophy of urinary bladder
753.6	Atresia and stenosis of urethra and bladder neck
753.7	Anomalies of urachus
753.8	Other specified anomalies of bladder and urethra
753.9	Unspecified anomaly of urinary system
754.0	Congenital musculoskeletal deformities of skull, face, and jaw
754.1	Congenital musculoskeletal deformities of sternocleidomastoid muscle
754.2	Congenital musculoskeletal deformities of spine
754.3x	Congenital dislocation of hip
754.4x	Congenital genu recurvatum and bowing of long bones of leg
754.5x	Congenital varus deformities of feet
754.6x	Congenital valgus deformities of feet
754.7x	Other congenital deformities of feet
754.8x	Other specified non-teratogenic anomalies
755.0x	Polydactyly
755.1x	Syndactyly
755.2x	Reduction deformities of upper limb, congenital
755.3x	Congenital reduction deformities of lower limb

Table S2. ICD-9 Diagnosis Codes for Congenital Abnormalities (*cont.*)

ICD-9 Diagnosis Code	Description
755.4	Reduction deformities, unspecified limb
755.5x	Other congenital anomalies of upper limb, including shoulder girdle
755.6x	Other congenital anomalies of lower limb, including pelvic girdle
755.8	Other specified anomalies of unspecified limb
755.9	Unspecified anomaly of unspecified limb
756.0	Anomalies of skull and face bones
756.1x	Congenital anomalies of spine
756.2	Cervical rib
756.3	Other anomalies of ribs and sternum
756.4	Chondrodystrophy
756.5x	Congenital osteodystrophies
756.6	Anomalies of diaphragm
756.7x	Congenital anomalies of abdominal wall
756.8x	Other specified congenital anomalies of muscle tendon fascia and connective tissue
756.9	Other and unspecified anomalies of musculoskeletal system
757.0	Hereditary edema of legs
757.1	Ichthyosis congenital
757.2	Dermatoglyphic anomalies
757.3x	Other specified congenital anomalies of skin
757.4	Specified anomalies of hair
757.5	Specified anomalies of nails
757.6	Specified congenital anomalies of breast
757.8	Other specified anomalies of the integument
757.9	Unspecified congenital anomaly of the integument
758.0	Down's syndrome
758.1	Patau's syndrome
758.2	Edwards' syndrome
758.3x	Autosomal deletion syndromes
758.4	Balanced autosomal translocation in normal individual
758.5	Other conditions due to autosomal anomalies
758.6	Gonadal dysgenesis
758.7	Klinefelter's syndrome
758.8x	Other conditions due to chromosome anomalies
758.9	Conditions due to anomaly of unspecified chromosome
759.0	Anomalies of spleen
759.1	Anomalies of adrenal gland
759.2	Anomalies of other endocrine glands
759.3	Situs inversus
759.4	Conjoined twins
759.5	Tuberous sclerosis
759.6	Other hamartoses, not elsewhere classified
759.7	Multiple congenital anomalies, so described
759.8x	Other specified congenital anomalies
759.9	Congenital anomaly, unspecified
770.8x	Other respiratory problems after birth